

10-19-2001

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(Rev. 6/93)

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Patent and Trademark Office

Attorney Docket No. 1340-1-034N

To the Assistant Commissioner for Patents, Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Erin Schuetz; Joing Zhang; and Mahfoud Assem

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name

Other: _____

Execution Date: September 28, 2001; October 1, 2001; and
September 24, 2001

2. Name and address of receiving party(ies):

Name: St. Jude Children's Research Hospital

Address: 332 North Lauderdale Street
Memphis, TN 38105-2794Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Christine E. Dietzel

Address: KLAUBER & JACKSON

411 Hackensack Avenue, 4th Floor

Hackensack, New Jersey 07601

6. Total number of applications and patents involved: _____

7. Total fee (37 CFR 3.41): \$40.00

☒ Enclosed☐ Authorized to be charged to deposit account, if necessary -
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11-1153

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Christine E. Dietzel, Reg. No. 37,309

Name of Person Signing

Signature

10/10/01

Date

Total number of pages including cover sheet, attachments, and document: _____

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner For Patents
Box Assignments
Washington, D.C. 20231

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: 1340-1-034N (SJ-0029)
Inventors: Schuetz et al.
Serial No.: 09/974,619
Filing Date: October 10, 2001
Examiner: Not yet assigned
Group Art Unit: 1645
Title: Genotyping Assay to Predict
CYP3A5 Phenotype

CERTIFICATE UNDER 37 CFR 3.73(b)

St. Jude Children's Research Hospital, a corporation, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors of the patent application identified above. The assignment was recorded in the Patent and Trademark Office on October 10, 2001 at Reel 012254, Frame 0388 for which a copy thereof is attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of the undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own belief are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under

Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

A. Scott Elmer
Signature

05/14/2002
Date

J. Scott Elmer
Typed or printed name

Director, Office of Technology Licensing
Title

Attorney Docket No.: 1340-1-034N

ASSIGNMENT

WHEREAS, WE,

ERIN SCHUETZ, a citizen of the United States, residing at
1442 Carr Avenue, Memphis, TN 38104; and

JIONG ZHANG, a citizen of the People's Republic of China, residing at
4278 Goldie Avenue, Memphis, TN 38122;

MAHFOUD ASSEM, a citizen of France, residing at
1) A 1275 Applebrook #2, Memphis, TN 38134 5511 MELVIN RD, Memphis, TN 38120

have invented certain new and useful improvements in

GENOTYPING ASSAY TO PREDICT CYP3A5 PHENOTYPE

for which we have filed an Application for Letters Patent in the United States on March 29,
2001, and was accorded U.S. Serial No. 60/279,915; and

WHEREAS, **ST. JUDE CHILDREN'S RESEARCH HOSPITAL**
332 NORTH LAUDERDALE STREET
MEMPHIS, TENNESSEE 38105-2794

ASSIGNEE, is desirous of obtaining the entire right, title and interest in, to and under the said
improvements and the said application;

NOW, THEREFORE, for other good and valuable consideration, the receipt of which
is hereby acknowledged, we the said

ERIN SCHUETZ; JIONG ZHANG and MAHFOUD ASSEM

have sold, assigned, transferred and set over, and by these presents do hereby sell, assign,
transfer and set over, to the said

ST. JUDE CHILDREN'S RESEARCH HOSPITAL

its successors, legal representatives and assigns, the entire right, title and interest in, to and
under the said improvements, and the said application and all divisions, renewals, and
continuations thereof, and all Letters Patent of the United States which may be granted
thereon and all reissues and extensions thereof, and all applications for Letters Patent which
may hereafter be filed for said improvements in any country or countries foreign to the United
States, including the right to claim priority under the terms of any appropriate International
Convention based upon said application for Letters Patent of the United States, and all Letters
Patent which may be granted from said improvements in any country or countries foreign to
the United States and extensions, renewals and reissues thereof; and we hereby authorize and

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any country or countries foreign to the United States, whose duty is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said

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its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the interest herein assigned in the manner hereinabove set forth, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said

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its successors, legal representatives and assigns, any fact known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisions, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said

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its successors, legal representatives and assigns, to obtain and enforce proper Patent Protection for said improvements in the United States.

IN TESTIMONY WHEREOF, we hereunto set our hand and seal the day and year set opposite our signatures.

Date 9-28, 2001

Erin Schuetz L.S.
ERIN SCHUETZ

Date 10/01, 2001

Fronghang L.S.
JIONG ZHANG

Date 9-24, 2001

Mahfoud Assem L.S.
MAHFOUD ASSEM